

Notes on Siamese Annonaceae

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IN the course of a revision of Malayan Annonaceae, I have at the same time for comparative purposes examined some Siamese Annonaceae kindly lent to me by the Department of Agriculture, Bangkok. As a result there are several new records of species which are not listed in Craib's 'Florae Siamensis Enumeratio'. Several new combinations and nomenclatural changes also have to be made. The species marked with an asterisk are new to Siam.

Anomianthus dulcis (Dunal) Sinclair, **comb. nov.**

Basynym: *Uvaria dulcis* Dunal, Anon. (1817) 90 t. 13 non sensu Auctt. *Syn.*: *Anomianthus heterocarpus* Zöll in Linnaea 29 (1857-58) 324; Boerl. in Icon. Bog. 1 (1899) 96 t. 28. *Uvaria pachychila* Merr. in herbario.

Uvaria dulcis Auctt. is *U. javana* Dunal.

***Anaxagorea javanica** Bl. var. **tripetala** Corner in Gard. Bull. Str. Settl. 10 (1939) 12.

Kerr 7605, Bentong, Pattani.

This number is quoted by Craib in Fl. Siam. Enum. P. 47 as *Anaxagorea Scortechinii* King.

***Cyathostemma viridiflorum** Griff. Notulae 4 (1854) 707 et Icon. 4 (1854) t. 650.

Kerr 14876 Kao Kalakiri, Patani.

***Drepananthus pruniferus** Maing. in Hk. f. et Th. Fl. Br. Ind. 1 (1872) 56.

M.C. Lakshnakara 748, Kao Re Chan, Toh Moh.

***Desmos filipes** (Ridley) Ridley in Journ. As. Soc. Str. Br. 75 (1917) 6.

Kerr 15448, Nakawn Sritamarat.

***Fissistigma minuticalyx** (MacGregor et W. W. Smith) Chatterjee in Kew Bull. (1948) 58.

Winit 1865, Chiengrai, Mê Fang.

***Goniothalamus Scortechinii** King, Mat. F.M.P. Vol. 1 No. 4 (1892) 326.

M. C. Lakshnakara 640, Bukit Nasi, Toh Moh.

***Meiogyne Maclurei** (Merr.) Sinclair, **comb. nov.**

Basynym: Fissistigma Maclurei Merr. in Philipp. Journ. Sc. 21 (1922) 342. *Syn.: Fissistigma hainanense* Merr. in Journ. Arn. Arb. 6 (1925) 131. *Desmos hainanensis* (Merr.) Merr. et Chun in Sunyatsenia 2 (1935) 229. *Melodorum Maclurei* (Merr.) Ast in Supp. Fl. Gén. de L'Indo-Chine (1938) 111.

Kerr 9706, Chantabun.

Melodorum aberrans (Maingay) Sinclair, **comb. nov.**

Basynym: Polyalthia aberrans Maingay in Hk. f. et Th. Fl. Br. Ind. 1 (1872) 67; King, Mat. F.M.P. Vol. 1 No. 4 (1892) 312 et in Ann. Roy. Bot. Gard. Calc. 4 (1893) 78 Pl. 109A. *Syn.: Sphaerocoryne aberrans* Ridley in Journ. Roy. As. Soc. Str. Br. 75 (1917) 8 et F.M.P. 1 (1922) 61. Craib Fl. Siam. Enum. 1 (1925) 47, *syn.: Pierreano excl.*

M. fruticosum Lour. Fl. Cochinch. (1790) 351.

Syn.: M. clavipes Hance in Journ. Bot. 15 (1877) 328. *Sphaerocoryne clavipes* Craib in Kew Bull. (1922) 168 et in Fl. Siam. Enum. 1 (1925) 47. *Popowia Mesnyi* Craib in Kew Bull. (1914) 5. *P. aberrans* Pierre ex Finet et Gagnep. in Bull. Soc. Bot. Fr. Mém. 4 (1906) 109 et Fl. L'Indo-Chine (1907) 83. *P. diospyrifolia* Pierre ex Finet et Gagnep. in Bull. Soc. Bot. Fr. Mém. 4 (1906) 53. *Polyalthia siamensis* Boerl. in Icon. Bogor. (1899) 124 and 195 t. 69. *Unona Mesnyi* Pierre Fl. For. Cochinch. 1 (1880) t. 17 *pro parte*.

Merrill in Philipp. Journ. Sc. Bot. 15 (1919) 125 gives very good reasons why *Melodorum* Lour. should be retained for a species usually known as *Sphaerocoryne clavipes* (Hance) Craib. However in quoting synonyms Merrill has included two species under *Melodorum fruticosum*, the type of Loureiro's *Melodorum*. He does however suggest that there may be more than one species included in his list of synonyms. The other species included is *Sphaerocoryne aberrans* (Maingay) Ridley = *Polyalthia aberrans* Maingay which I now call *Melodorum aberrans*.

Loureiro's other species of *Melodorum*, *M. arboreum* is not congeneric with his *M. fruticosum*, the type of the genus but is probably *Mitrephora Thorelii* Pierre. There is no herbarium specimen of *M. arboreum* preserved.

Subsequent species of *Melodorum* added by Dunal, Hooker f. and Thomson and later authors are not congeneric with Loureiro's *Melodorum* and most of them are now put in *Fissistigma*.

Miliusa campanulata Pierre, Fl. For. Cochinch. (1881) t. 41.

Kerr 8824, Lôi Pu Tong, quoted as *M. campanulata* by Craib in Fl. Siam. Enum. 1 (1925) 58 agrees with *M. longipes* King. So also do *Kerr 15041*, Kao Kalakiri, Pattani and *Kerr 14828* Ban Pien, Songkla, not quoted by Craib. Whether King's species and Pierre's are identical, I am not prepared to say at present but this is a point for future investigation.

Mitrephora laotica Finet et Gagnep. in Bull. Soc. Bot. Fr. (1907) 87; Fl. L'Indo-Chine (1907) 92 fig. 11.

Kerr 5455, Payap, Kun Yuam, Mê Hawng Sawm. Craib quotes *Kerr 5455* as this species but he adds 'referred ex description'. I have seen *Kerr 5455* and it is a *Goniothalamus* but I have not seen the type of *Mitrephora laotica*.

***Orophea enterocarpa** Maing. in Hk. f. et Th. Fl. Br. Ind. 1 (1872) 92.

Kerr 13197; 13197A; 11989A; 11657; 14875; 15564; 7752; Put 1520; 3225.

These are probably all *O. enterocarpa*. *Winit 623* is quoted by Craib as *O. fusca*. I should name it *O. enterocarpa* and I do not think *fusca* is sufficiently distinct from *O. enterocarpa* to be a separate species.

***Polyalthia asteriella** Ridley in Journ. As. Soc. Str. Br. 82 (1920) 169.

Kerr 14994, Kao Kalakiri, Pattani.

***P. bullata** King, Mat. F.M.P. Vol. 1 No. 4 (1892) 313.

Kerr 15924, Kao Keo, Songkla.

***P. crassa** Parker in Indian Forester 55 (1929) 375.

Kerr 11904, Tako, Langsuan. *Kerr 11572*, Ta Ngam, Chumpawn.

P. debilis (Pierre) Finet & Gagnep. in Bull. Soc. Bot. Fr. 53 Mém. 4 (1906) 96.

Basynym: Unona debilis Pierre, Fl. For. Cochinch. 1 (1880) t. 29. *Syn.: Unona dubia* Craib in Kew Bull. (1911) 10. *Desmos dubius* Craib, Fl. Siam. Enum. 1 (1925) 38.

The type of Craib's *Unona dubia*, Kerr 1207 in Herb. Kew, agrees with the two type sheets (also in Herb. Kew) of *Polyalthia debilis*, Pierre 289 and 1765 from Cochinchina.

***P. Rumphii** (Bl.) Merr. Enum. Philipp. Fl. Plants 2 (1923) 162.

Kerr 12602 and 12605, Kaw Samui, Surat. Kerr 19084, Tarang. Kerr 1865, Tamban, Kao Panom, Krabi. Put 1242, Kaw Pa-ngan, Surat.

***P. Motleyana** (Hk. f.) Airy-Shaw var. *glabrescens* Airy-Shaw in Kew Bull. (1939) 282.

M. C. Lakshnakara 747, Kao Re Chan, Toh Moh.

***Pseuduvaria multiovulata** (Fischer) Sinclair, **comb. nov.**

Basynym: *Mitrephora multiovulata* Fischer in Kew Bull. (1926) 450.

Kerr 12392, Surat. Kerr 17264, Kao Pang-nga, Pang-nya. This species has the flower structure typical of a *Pseuduvaria*.

***P. rugosa** (Bl.) Merr. in Philipp. Journ. Sc. Botany 10 (1915) 255.

Syn.: *Mitrephora trimera* Craib in Kew Bull. (1913) 65. Kerr 12603, Kaw Samui, Surat. Kerr 12084, Kao Nam Sao, Langsuan. Kerr 18674, Panom Bencha, Krabi. Kerr 18828, Tamban Kao, Panom Krabi. Kerr 5031, Nan Hui Kua.

Craib's *M. trimera* and *P. rugosa* appear to be identical and I have put *M. trimera* as a synonym of *P. rugosa*.

***P. setosa** (King) Sinclair, **comb. nov.**

Basynym: *Orophea setosa* King, Mat. F.M.P. Vol. 1 No. 4 (1892) 329.

Kerr 15446, Nakawn Sritamarat.

This has unisexual flowers whereas *Orophea* has hermaphrodite ones. The flower structure is typical of a *Pseuduvaria*.

***Stelechocarpus cauliflorus** (Scheff.) Sinclair, **comb. nov.**

Basynym: *Sageraea cauliflora* Scheff. in Ann. Jard. Bot. Buitenz. 2 (1885) 5. *Syn.*: *Stelechocarpus nitidus* King, Mat. F.M.P. Vol. 1 No. 4 (1892) 253 et in Ann. Roy. Bot. Gard. Calc. 4 (1893) 4 Pl. 2; Ridley F.M.P. 1 (1922) 24. *S. Schefferi* Boerl. in Icon. Bogor. 1 (1899) 199 t. 71. *Sageraea nitida* Finet et Gagnep. in Bull. Soc. Bot. France 53 Mém. 4 (1906) 59.

Kerr 14906, Kao Kalakiri, Pattani, Rabil 342, Kao Wang, Ampo Kao, Trang. *Cauliflorus* is an older name than *nitidus*, hence the new combination.

Uvaria grandiflora* Roxb. var. *flava* (Teys. et Binn.) Sinclair, **comb. nov.

Basynym: *U. flava* Teyss. et Binn. in Nat. Tijds. Ned. Ind. 25 (1863) 419. *Syn.*: *U. purpurea* Bl. var. *flava* Scheff. in Nat. Tijds. Ned. Ind. 31 (1869) 4.

Mrs. D. J. Collins 1680, Nong Khum, Sriracha Forest.

This is probably only a colour form.

U. Hahnii (Finet et Gagnep.) Sinclair, **comb. nov.**

Basynym: *Unona Hahnii* Finet et Gagnep. in Bull. Soc. Bot. Fr. Mém. 4 (1906) 78 t. 13B. *Syn.*: *Desmos Hahnii* Merr. in Philipp. Journ. Sc. Bot. 10 (1915) 235 et Craib Fl. Siam. Enum. 1 (1925) 40.

Kerr 4171, Prachinburi, Sriracha, Nawng Nam Kio. Put 2701, Ban Pe, Rayawng. Mai Noe 53, Kao Saming, Korat.

This has all the characters of a *Uvaria* and not of a *Desmos*.

**U. Hamiltonii* Hk. f. et Th. var. *Kurzii* King, Mat. F.M.P. Vol. 1 No. 4 (1892) 263.

Winit 1733, Lampang Mè Sung, Weyri Forest.

This is probably var. *Kurzii*. The flowers are greenish and later yellowish.

**U. Lobbiana* Hk. f. et Th. Fl. Ind. 1 (1855) 100.

Kerr 11943, Langsuan.

Not previously recorded. *Distribution*: Burma, Malaya, Sumatra and Borneo.

**Xylopia ferruginea* (Hk. f. et Th.) Hk. f. et Th. in Fl. Br. Ind. 1 (1872) 85.

M. C. Lakshnakara 717, Kao Re Chan, Toh Moh.

Not previously recorded, common in Malaya.